

Customer No.: 31561  
Docket No.: 11584-US-PA  
Application No.: 10/708,446

### REMARKS

#### Present Status of the Application

The abstract of the disclosure is objected by MPEP 608.01(b). The disclosure is objected to because of the informalities. Claims 1,4 are objected to because of the informalities. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Pai (US 2004/0075636 A1, Pai, hereinafter). Claim 2 is rejected under 35 U.S.C 103 (a) as being unpatentable over Pai in view of Chow (US 6,836,149, Chow, hereinafter). Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pai in view of Sunohara (US 2003/0038771 A1, Sunohara, hereinafter). Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pai and Sunohara as applied to claim above, and further in view of Matsuura (US 5,619,169 A, Matsuura, hereinafter).

The applicant corrects the abstract, the informalities of disclosure and the informalities of claims. The applicant also amends the Claim 1 to overcome 35 U.S.C. 102 (e). Then, under the amendment of the Claim 1, the dependent claim 2 is patentable over Pai in view of Chow. Moreover, the applicant respectfully disagrees and traverses the rejections of Claims 3,4 under 35 U.S.C. 103 (a). Otherwise, new Claim 5 is added from splitting the Claim 4.

Therefore, it is believed that no new matter adds by way of amendment to claims or otherwise to the application. After traversing of the aforementioned rejections, Claims 1-5 remain pending in the present application, and reconsideration of those claims is respectfully requested.

#### Discussion of Objections

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The abstract of the disclosure is objected by MPEP 608.01(b). The disclosure is objected to because of the informalities. Claims 1,4 are objected to because of the informalities. The applicant corrects the abstract, the informalities of disclosure and the informalities of claims. On the other hand, the word "swtemptempitches" is not found in the applicant's specification but found in the web of USPTO. It might be a transforming error of the web.

**Discussion of the claim rejection under 35 USC 102**

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Pai.

Applicant respectfully traverses the rejection for at least the reasons that Pai fails to teach or suggest "...*the differential signal transmitter comprises a signal amplifier, which converts and amplifies the differential signal before the differential signal is transmitted from the differential signal transmitter.*" as recited in claim 1. Withdrawal of the rejection is courteously requested.

**Discussion of the claim rejection under 35 USC 103**

Claim 2 is rejected under 35 U.S.C 103 (a) as being unpatentable over Pai in view of Chow. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pai in view of Sunohara. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pai and Sunohara as applied to claim above, and further in view of Matsuura. The applicant amends the Claim 1. Therefore, the dependent claim 2 is patentable over Pai in view of Chow. Moreover, the applicant respectfully disagrees and traverses the rejections of Claims 3,4 under 35 U.S.C. 103 (a).

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As defined in the claim 3 of the invention, it is interpreted that "wherein the differential signal transmitter comprises a signal amplifier, which converts and partially amplifies the differential signal before the differential signal is transmitted from the differential signal transmitter." The feature of the invention is that the differential signal transmitter amplifies the differential signal before the differential signal. As found in paragraph [0021] of Sunohara, it is interpreted that "[a] CMADS receiver for receiving a signal of a CMADS amplitude via each of the internal CMADS bus lines and amplifying the signal to provide the amplified signal to a serial-parallel conversion circuit...." The technique of the Sunohara is that a CMADS receiver amplifies the signal after receiving the signal. Apparently, the invention amplifies the signal before the transmission. On the other hand, Sunohara amplifies the signal after the transmission. Therefore, the Claim 3 is patentable over Pai and Sunohara as applied to claim above, and further in view of Matsuura.

An embodiment of the claim 4 is described in the Fig 8 in the invention. The corresponding embodiment of the Matsuura is described in the Fig 1 of the Matsuura. Referring to the Fig 1 of the Matsuura and the Fig 8 of the invention, the mechanism of transistors 2a, 2a', 2b, 2b' of Maturra is different from the mechanism of switches 830,840,850,860. In the invention, the switches 830,840,850,860 are under the scope of the digital circuit. Therefore, the digital switches 830,840,850,860 select the states of the "turn on" and "turn off" separately. However, the variations of the currents flowing though the transistors 2a, 2a', 2b, 2b' described in Fig 3A and Fig 3B are to prove that the

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transistors 2a, 2a', 2b, 2b' are under the scope of the analog circuit. The mechanism of the analog circuit is different from the digital circuit. As a result, the Claim 4 is patentable over Pai and Sunohara as applied to claim above, and further in view of Matsuura.

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### CONCLUSION

For at least the foregoing reasons, it is believed that the pending claims 1-5 are in proper condition for allowance and an action to such effect is earnestly solicited. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

Date : Dec. 8, 2006

Respectfully submitted,

  
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